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1 Compactly encoding unstructured inputs with differential compression

 Miklos Ajtai, Randal Burns, Ronald Fagin, Darrell D. E. Long, Larry Stockmeyer
 May 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 3

 Full text available: [pdf\(348.32 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The subject of this article is *differential compression*, the algorithmic task of finding common strings between versions of data and using them to encode one version compactly by describing it as a set of changes from its companion. A main goal of this work is to present new differencing algorithms that (i) operate at a fine granularity (the atomic unit of change), (ii) make no assumptions about the format or alignment of input data, and (iii) in practice use linear time, use constant space ...

Keywords: Delta compression, differencing, differential compression

2 Compression and ranking

A Goldberg, M Sipser

 December 1985 **Proceedings of the seventeenth annual ACM symposium on Theory of computing**

 Full text available: [pdf\(843.16 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A complexity-theoretic approach to the classical data compression problem is to define a notion of language compression by a machine in a certain complexity class, and to study language classes compressible under the above definition. Languages that can be compressed efficiently (e.g. by a probabilistic polynomial time machine) are of special interest. We define the notion of language compressibility, and show that sufficiently sparse "easy" languages (e.g. polynomial ...

3 Energy Optimization of Distributed Embedded Processors by Combined Data Compression and Functional Partitioning

Jinfeng Liu, Pai H. Chou

 November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

 Full text available: [pdf\(271.86 KB\)](#)

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Transmitting compressed data can reduce inter-processor communication traffic and create new opportunities for DVS (dynamic voltage scaling) in distributed embedded systems.



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1 [System-level architecture: A compressed frame buffer to reduce display power consumption in mobile systems](#)

Hojun Shim, Naehyuck Chang, Massoud Pedram

 January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04 , Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04**

Full text available: pdf(630.03 KB)

[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Despite the limited power available in a battery-operated hand-held device, a display system must still have an enough resolution and sufficient color depth to deliver the necessary information. We introduce some methodologies for frame buffer compression that efficiently reduce the power consumption of display systems and thus distinctly extend battery life for hand-held applications. Our algorithm is based on a run-length encoding for on-the-fly compression, with a negligible burden in resourc ...

2 [A control-theoretic approach to adapting VBR compressed video for transport over a CBR communications channel](#)

Soung C. Liew, Derek Chi-yin Tse

February 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 1

Full text available: pdf(429.79 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: rate control, traffic adaptation, video compression, video transport, video-buffer control

3 [Cached-code compression for energy minimization in embedded processors](#)

Luca Benini, Alberto Macii, Alberto Nannarelli

 August 2001 **Proceedings of the 2001 international symposium on Low power electronics and design**

Full text available: pdf(263.64 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

1991-08-01 IPCOM000121208D English
Described is a method whereby an optimal path and optimal placement of compressor and decompressors is provided for communication networks routing. So as to improve the communication networks, the optimal routing and location the compressors and ...

Result # 8 Relevance: ○○○○

Self Adaptive Compression and Expansion

1973-12-01 IPCOM000080498D English
This is a method and apparatus for adaptively compressing and expanding digital information exhibits a piecewise linear structure, using a linear feedback shift register. With reference to principles of the Massey algorithm, a unique minimum length linear feedback ...

Result # 9 Relevance: ○○○

Maximum Entropy Method of Data Encoding for Dictionaries and Text

1990-11-01 IPCOM000102381D English
Conventional methods of data encoding, such as EBCDIC and ASCII, are inefficient to store and transmitting natural language data such as dictionaries and texts. Conventional compression techniques often use block encoding, which maps large and larger blocks

Result # 10 Relevance: ○○○

Algorithm for Compressing Static Sets

1988-03-01 IPCOM000057166D English
A method is described for compressing a set of static, i.e., time-invariant patterns, to a volume necessary for transmission and storage. Static patterns are often found in font codes and graphic information. Data compression techniques rely on ...

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Published 6-5-2003 (Original publication date)

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